

ABSTRACT OF THE DISCLOSURE

Based on PIDs registered in a necessary-PID table, a second TS-packet extracting section extracts necessary packets from a second TS. Based on packets registered in the table, a detecting section detects unnecessary-packet areas in a first TS. A TS-packet overwriting section overwrites the extracted necessary packets to unnecessary-packet areas in the first TS, performs multiplexing thereof, and thereby generates a CTS, which is common to the TSs. Thereby, while a broadcast program in the first TS is viewed, image-recording of a broadcast program in the second TS can be performed. Since the configuration can be made using a separating section, a decoder, a digital interface, and the like for handling single-system TSs, reduction in the cost and size can be implemented.